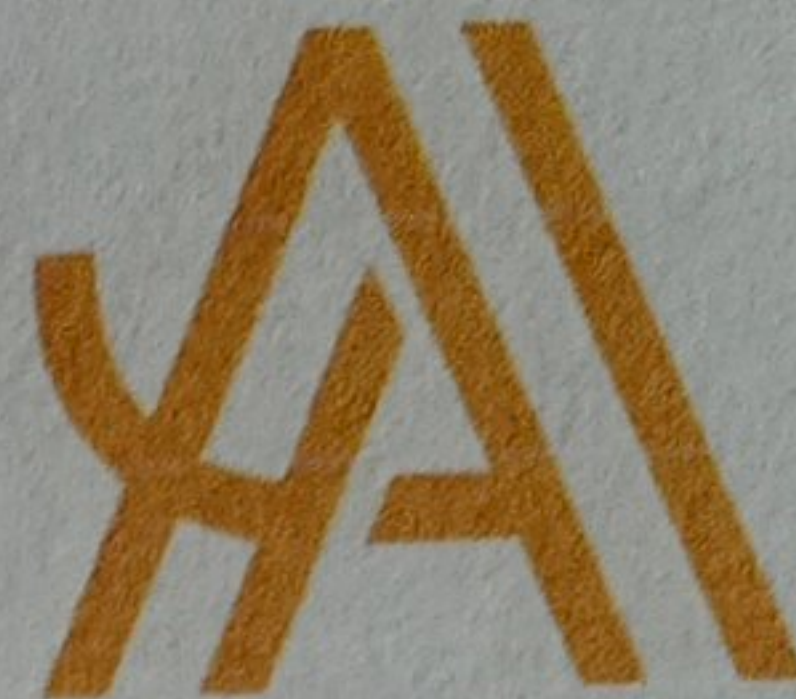


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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)

Date: 10-01-2023

Name of Work : "PACKAGE NO-04 Construction of Classrooms to Govt PU College and Providing grill fencing to Vishweshwarayya Park, Rajkumar Park, Sri Sai Baba Park of Yelahanka Assembly Constituency Under Amrtha Nagarothana Grants."

Client Bruhat Bengaluru Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.

Contractor Sri. B B Umesh

Customer Reference BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23

Source of Sample Sample supplied by Agency

Sample Condition Satisfactory

Date of Receipt 10-01-2023

Sample Type Kerb

Sample Grade/ Age M20

Date of Test 10-01-2023

Location ISRO layout Park

Sl No.	Location	Direction Rebound Hammer used	Rebound Hammer Reading	Average Rebound Hammer Reading	Compressive Strength
					N/mm ²
1	Rajkumar Park	Horizontal	34	34	30
2			33		
3			34		
4			36		
5			35		
6			34		

Remarks : Results Found Satisfactory

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)

Date: 18-11-2022

Name of Work : "PACKAGE NO-04 Construction of Classrooms to Govt PU College and Providing grill fencing to Vishweshwarayya Park, RajKumar Park, Sri Sai Baba Park of Yelahanka Assembly Constituency Under Amrtha Nagarothana Grants."

Client Bruhat Bangalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.

Contractor Sri. B B Umesh

Customer Reference BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23

Source of Sample Sample supplied by Agency

Sample Condition Satisfactory

Date of Receipt 11-11-2022

Sample Type Pole Concrete for Park Grill

Sample Type/Size 150x150x150 mm

Sample Grade/ Age M20/ 07 Days Compressive Strength

Date of Test 18-11-2022

Location ISRO layout Park

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm ²	N/mm ²
1	Pole	M20	11-11-2022	18-11-2022	150x150x150	22500	395.00	17.56	17.23
2	Pole	M20	11-11-2022	18-11-2022	150x150x150	22500	378.00	16.80	
3	Pole	M20	11-11-2022	18-11-2022	150x150x150	22500	390.00	17.33	

Remarks : Results Found Satisfactory

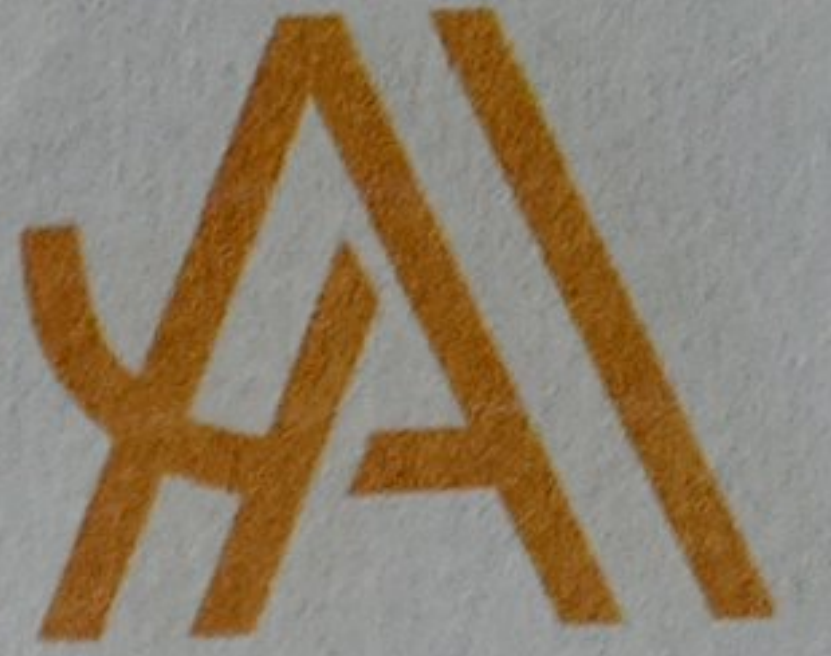


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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)

Date: 07-11-2022

Name of Work : "PACKAGE NO-04 Construction of Classrooms to Govt PU College and Providing grill fencing to Vishweshwarayya Park, RajKumar Park, Sri Sai Baba Park of Yelahanka Assembly Constituency Under Amrtha Nagarothana Grants."

Client Bruhat Bengaluru Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.

Contractor Sri. B B Umesh

Customer Reference BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23

Source of Sample Sample supplied by Agency

Sample Condition Satisfactory

Date of Receipt 05-11-2022

Sample Type Pole Concrete for Park Grill

Sample Type/Size 150x150x150 mm

Sample Grade/ Age M20/ 07 Days Compressive Strength

Date of Test 07-11-2022

Location ISRO layout Park

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Maximum Load in	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	KN	N/mm ²	N/mm ²
1	Pole	M20	05-11-2022	12-11-2022	150x150x150	22500	408.00	18.13	17.17
2	Pole	M20	05-11-2022	12-11-2023	150x150x150	22500	385.00	17.11	
3	Pole	M20	05-11-2022	12-11-2024	150x150x150	22500	366.00	16.27	

Remarks : Results Found Satisfactory



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Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963

Date:

20-09-2022

Name of Work : "PACKAGE NO-04 Construction of Classrooms to Govt PU College and Providing grill fencing to Vishweshwarayya Park, RajKumar Park, Sri Sai Baba Park of Yelahanka Assembly Constituency Under Amrtha Nagarothana Grants."

Client	Bruhat Bangalore Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.
Contractor	Sri B B Umesh
Customer Reference	BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Sample Type	Coarse Aggregate
Date of Test	20-09-2022
Location	ISRO layout Park

Physical Properties

Sl. No	Physical Properties	Result	Requirements as per IS: 386-2016
1	Flakiness Index (%)	13.20	Combined Flakiness and Elongation Index shall not exceed 40% for uncrushed and crushed
2	Elongation Index (%)	12.6	
3	Specific Gravity	2.66	-
4	Bulk Density (Loose) (Kg/l)	1.54	-
5	Bulk Density (Composed) (Kg/l)	1.58	-
6	Water Absorption (%)	0.22	-
7	Aggregate Crushing Value (%)	24.50	Max 30% for Aggregates to be used in concrete for wearing surfaces, In case aggregate Crushing Value exceeds 30% then the test for 10% fines should be conducted for aggregate to be used in concrete other than for wearing surfaces
8	Aggregate Impact Value (%)	22.80	Max 30% for aggregate to be used in concrete for wearing surfaces, 45% for aggregate to be used in concrete other than for wearing surface.

Remarks : Results Found Satisfactory



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Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3 & 4)-1963 (Reaffirmed-2012)

Date:

20-09-2022

Name of Work : "PACKAGE NO-04 Construction of Classrooms to Govt PU College and Providing grill fencing to Vishweshwarayya Park, RajKumar Park, Sri Sai Baba Park of Yelahanka Assembly Constituency Under Amrtha Nagarothana Grants."

Client Bruhat Bengaluru Mahanagara Palike (BBMP) , Yelahanka Zone, Bengaluru.

Contractor Sri B B Umesh

Customer Reference BBMP/EE/YNK.D/EPMT-14/AG/07/2022-23

Source of Sample Sample supplied by Agency

Sample Condition Satisfactory

Sample Type Coarse Aggregate

Date of Test 20-09-2022

Location ISRO layout Park

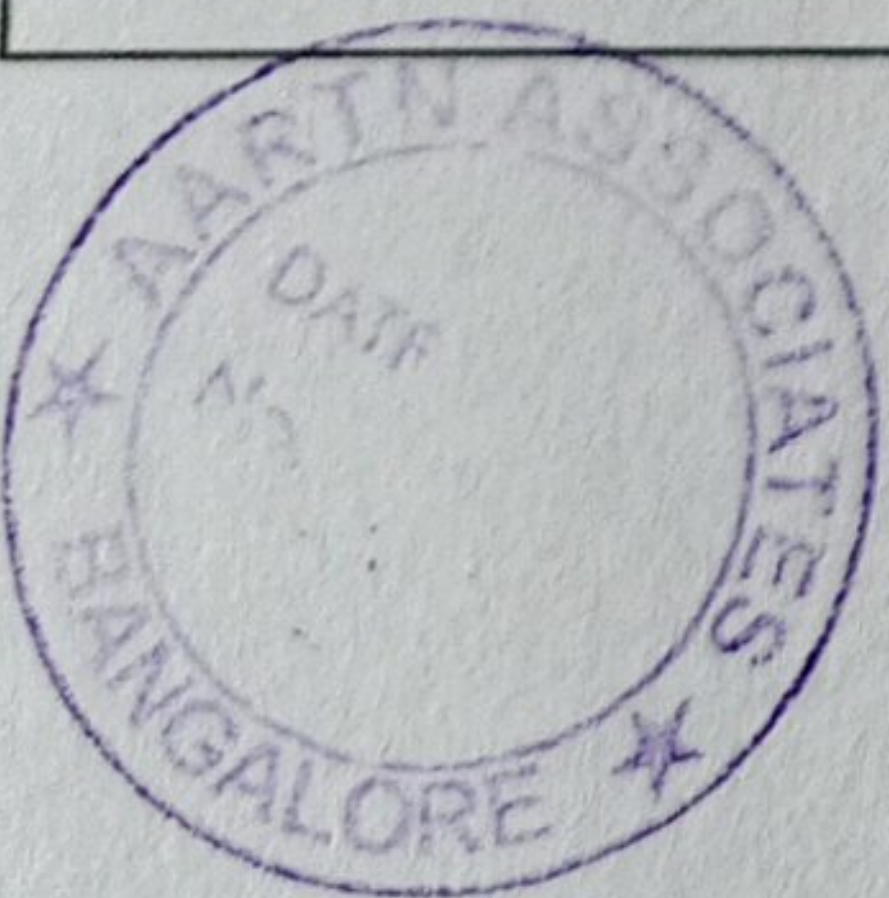
Sieve Analysis (Particle Size Distribution) of 20mm Down Coarse Aggregate

Total wt of the sample (gms):

5000

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifications as per IS: 383-2016
40	0	0	0.0	100	100
20	245	245	4.9	95.1	90-100
10	2560	2805	56.1	43.9	20-55
4.75	2033	4838	96.8	3.2	0-10
PAN	162	5000	100.0	0.0	-

Remarks : Results Found Satisfactory



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